

ARIDAE, A NEW SUBCLASS OF LILIOPSIDA

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ABSTRACT

The assertion that Acoraceae and Araceae (including Lemnaceae) form a group distinct from Areceaceae requires the establishment of a new subclass, **Aridae**. Its position within Liliopsida (monocots) is between Triurididae and Liliidae. Arecidae is placed adjacent to Commelinidae.

KEY WORDS: Liliopsida, Aridae, nomenclature

On-going phylogenetic studies on Liliopsida (monocots) necessitate some taxonomic realignments. The combined analysis by Chase *et al.* (1995) demonstrates that Arecidae (*sensu* Cronquist 1988) is polyphyletic. The new subclass includes Acoraceae and Araceae (including Lemnaceae).

Aridae Reveal, *subclass et stat. nov.* based on the Latin description associated with a F.G. Bartling (*Ord. Nat. Pl.*: 25, 65. Sep 1830, as Class Aropsida ["Aroideae"]) name.

I accept the following subclasses in Liliopsida Scop., *Fl. Carniol.*: 228. 1760:

- Alismatidae Takht., *Syst. Phylog. Magnolioph.*: 461. 1967. (alismatoids)
- Triurididae Takht. *ex* Reveal, *Novon* 2:235. 1992. (triuroids)
- Aridae Reveal, *Phytologia* 81:142. 1997. (arids)
- Liliidae Takht., *Syst. Phylog. Magnolioph.*: 473. 1967. (lilioids)
- Arecidae Takht., *Syst. Phylog. Magnolioph.*: 425. 1967. (arecids)
- Commelinidae Takht., *Syst. Phylog. Magnolioph.*: 514. 1967. (commelinids)
- Zingiberidae Cronquist, *Brittonia* 30:505. 1978. (zingibers)

ACKNOWLEDGMENTS

Work on this project has been supported by the University of Maryland Experiment Station and Cooperative Extension Service. This note was kindly reviewed by Drs. Bryan E. Dutton and Kancheepuram N. Gandhi.

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